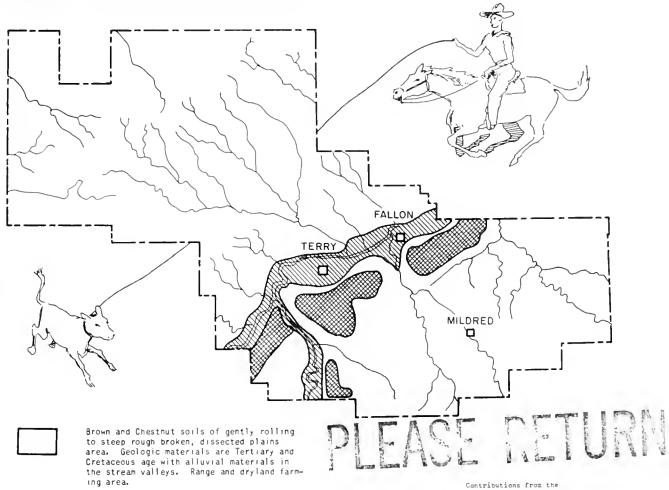


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OUR LAND AND WATER

LAND IN PRAIRIE COUNTY



Prairie Co. Grazing District made this publication possible.



Brown soils on gravel capped benches within the bedrock plains. Textures range from sandy to medium with medium textures on about half of the area. Soils on the central portion of the benches are deep with shallow gravelly soils along the bench edges. Dryland farming and range.



Alluvial soils of the valleys within the bedrock plains. Deep medium textured and moderately heavy soils predominate, but both heavy and sandy soils occur and there are some shallow soils. Irrigated cropland and range.

PRAIRIE COUNTY, MONTANA

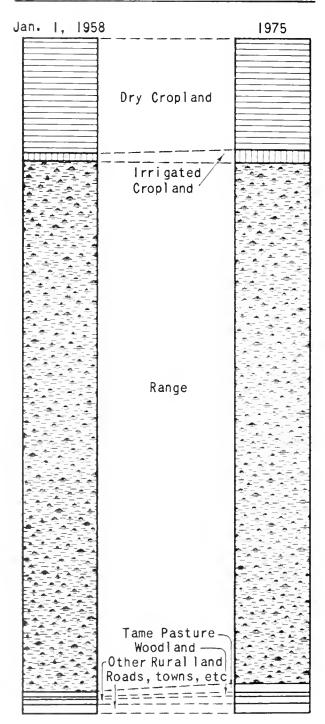


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In Prairie County there are		1,105,280	acres
The Area of Federal Land is		451,054	acres
Towns, roads, water, etc. amount to		9,737	acres
This leaves a conservation responsibility	on-	епп паа	acres

LAND USE TODAY AND EXPECTED BY 1975



Dry cropland will decrease slightly. Marginal cropland will be seeded to tame pasture. This will be offset somewhat by present rangeland going into cropland use.

Irrigated cropland will increase due to development of new irrigation systems.

Rangeland will decrease slightly. The loss will be to developing land for irrigation and dry cropland.

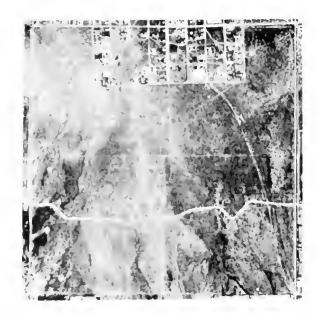
Tame pasture will increase by twothirds mostly from reseeding of dry cropland.

Woodland areas will remain nearly the same. Any increase would be due to farm and field shelterbelts.

Nonagricultural use of rural land will increase. Irrigation and drainage systems will account for most of the increase.

Land taken out of farms for highways and other public uses will increase.

TREND IN LAND USE





EXPLANATION: Irrigation development is increasing. This increase results in more intensive use of land, creating more conservation problems. The photo on the left shows the area immediately south of Terry in 1942. The photo on the right shows the same area in 1958.

Why The Inventory: To assure the wise use of our basic resources we need facts about physical problems of conservation, their magnitude and relative urgency. This inventory contains these facts. It will be modified and kept current with advances in technology and increased knowledge.

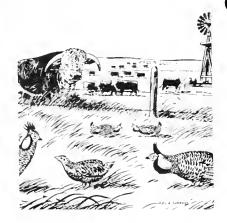
How It Was Made: The inventory was initiated in 1957, as part of a national inventory authorized by the Secretary of Agriculture. It is based upon soil surveys of 160 acre samples drawn at random. The soil survey samples were expanded to represent actual conditions in the county. The county committee used this information along with their knowledge of the county to develop estimates of expected changes by 1975.

Who Did It: The inventory and this leaflet were prepared by the Prairie County Conservation Needs Committee. The committee consisted of representatives of the County Extension Service, Agricultural Conservation Program Service, Prairie County Cooperative State Grazing District, County Assessors Office, Buffalo Rapids Project, Bureau of Land Management, County Commissioners, and the Soil Conservation Service, which acted as chairman.

THE PROBLEMS AND NEEDED TREATMENT

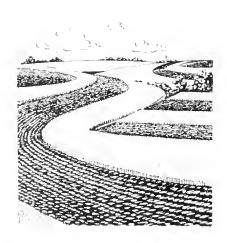






107,001	acres
29.515	acres
20,010	40.00
4,188	acres
12, 183	acres
2 1106	20505
500	acres
2,129	acres
55	acres
	29,515 4,188 12,183 3,406 500 2,129 55

GRASSLA	ND (Range, Tame Pasture, Irrigated		
Nativ	e)	517,884	acres
74% o	r 384,404 acres are adequately		
tre	ated		
26% n	eeds treatment -		
a.	Needs reseeding	4,898	acres
b	Improvement (Deferred grazing pri-		
	marily)	51,700	acres
С	Over-grazed (Proper stocking, and		
	better distribution)	76,682	acres
d	Needs stockwater	76,360	acres
е	Protection from fire	155,036	acres
f	Severe erosion problem	700	acres
g	Rodent control	125	acres
h	Encroachment of plants	500	acres
i	Insects and disease	2,200	acres
j	Needs water conservation	800	acres
k	Excess water	0	acres







WOODLAN	D	-	2,025	acres
a	Protection from fire	_	504	acres
b	Insect and disease control	-	5	acres
С	Protection from animals	-	15	acres
d	Establishment of shelterbelts	-	25	acres
6	Establishment of field windbreaks	_	2	miles

LAND USE CHANGE BY CAPABILITIES

	Land Use							
Land	1958				CHANGE	BY 1975		,
Capability Class	IRRIGATED	CROP	LAND		SLAND	1		OUT OF
C 1055		IRRIGATED	DRY	PASTURE	RANGE	WOODLAND	OTHER	AGRI. USE
<u> </u>	1128	1128						
H	2176	2101					25	50
111	1381	1331						50
IV	1085	1035						50
VI	2783	2783						
VII	171	171						
	D ry G ropland							
11	2207		2157			10		40
111	84704	523	83416	475		15	15	260
IV	9015		8165	850				
V	2204		2204					
VI	11020	45	8430	2545				
VII	29		29					
	* RANGE							* Include Irrigated Native
II	13785	210			13575			
111	83545	2206	2600	50	78529		10	240
IV	51634	150			51529		15	30
VI	*186700	500			187500			230
VII	175776				176666			400
VIII	1099						1099	
	Tame Pasture							
11	397			397				
111	2362			2340	22			
IV	110			110				
VI	3296			3296				
Woodland								
VI	1800					800		
VII	200					200		
	Other							
11	16						16	
HI	5122						5122	
IV	16						16	
VI	658						658	
VII	70		<u> </u>				70	
TOTAL	644489	12183	107001	10063	**507821	2025	704-6	1350

EXPLANATION: Quite a lot of the poorer dry cropland will be seeded to grass. Some of the better rangeland will be cultivated for use as either irrigated or dry cropland. Some of nearly all land classes will go into nonagricultural use.

^{** 3000} acres BLM (Expected to come into inventory by 1975)



LAND CAPABILITY DEFINITION

SUITABLE FOR CULTIVATION		NOT SUITABLE FOR CULTIVATION					
CLASS I	CL ASS 11	CLASS III	CLASS IV	CLASS V*	CLASS VI	CLASS VII	CLASS YIII
Very Good Land	Good Land	Moderately Good	Fairly Good Land	1	for Pasture, nd Woodlar		Suitable for Wildlife and
No Li mitations	Minor Limitations		Occasional Cultivation with severe Limitations	With no Limitations	With minor Limitations	With major Limitations	Watershed

^{*}Some soils in Classes Vand VI can be used for crops with unusually intensive management.

WATERSHED INVENTORY

What Was Done: Disregarding county or other political divisions the natural drainages were divided into units of 250,000 acres or less. Each subdivision was studied by the committee to determine treatment needs and possible developments which might be met through the small watershed program by other kinds of local group action.

What It Revealed: The watershed areas on the north side of the Yellowstone are mainly rangeland. The area south of the Yellowstone is rangeland and dryland farming area. A few watersheds along the Buffalo Rapids Project need treatment for erosion and flood control. Early project action is not likely. Small group action is anticipated for improving irrigation facilities.

MINUTES OF CONSERVATION NEEDS COMMITTEE

PRAIRIE COUNTY Terry, Montana

The meeting of the Conservation Needs Committee was held at the SCS Office on February 20, 1963.

The meeting began at 10:15 A.M. and was for the purpose of estimating the practices and amounts of each needed to provide the treatment on the various land uses. Estimates were made as of December 30, 1962.

Present at the meeting were Don G. Hubber, SCS; Emmett Gardner, Manager, Buffalo Rapids Irrigation Project; Phil Wilson, County Agent; and Phil Murphy, ASC County Committee Chairman.

Attached are the estimates made by the Committee.

The meeting adjourned at 4:30 P.M.

Don G. Hubber

SUPPLEMENT TO THE PRAIRIE COUNTY CONSERVATION NEEDS INVENTORY

The following is an estimate made by the committee of the practices and amounts of each needed to provide the treatment needed on the various land uses. Estimates were made as of December 30, 1962.

LAND USE - DRY CROPLAND

Practice	Unit	Amount				
Conservation Cropping System	Acres	4,188				
Diversion Ditches	Miles	150				
Diversion Dams	No.	750				
Grass Waterways	Acres	300				
Contour Striperopping	Acres	8,000				
Stripcropping Across Slope	Acres	7,000				
Wind Striperopping	Acres	2,500				
Stubble Mulching	Acres	33,000				
LAND USE - IRRIGATED CROPLAND						
Drain Ditches (Deep Drains Sub-Sur- face)	Miles	20				
Irrigation Canals or Laterals	Miles	40				
Field Ditches	Miles	70				
Land Leveling	Acres	3,500				
Irrigation Storage Reservoirs	No.	30				
Irrigation Water Management	Acres	11,000				
Irrigation System (Surface & Sub- Surface)	No.	40				
Weed Control	Acres	1,900				

Practice	Unit	Amount					
LAND USE - DRY PASTURE & HAYLAND							
Hayland Planting	Acres	4,000					
Pasture Planting	Acres	9,000					
Proper Pasture Use	Acres	9,000					
LAND USE -	IRRIGATED PASTURE &	HAYLAND					
Pasture Planting	Acres	150					
Pasture Proper Use	Acres	150					
Rotation Grazing	Acres	150					
Hayland Planting	Acres	2,000					
LAND USE - WILDLIFE							
Fish Pond Stocking	No.	65					
Wildlife Habitat Developmen	nt Acres	75					
LA	ND USE - WOODLAND						
Farmstead & Feedlot Windbr	eaks Acres	100					
Field Windbreaks	Acres	500					
LAND USE - RANGE							
Grade Stabilization Struct	ures No.	125					
Brush & Weed Control	Acres	250					
Farm Ponds	No.	250					
Cross Fencing	Miles	200					
Pipelines for Livestock N	ater Miles	5					
Deferred Grazing	Acres	100,000					

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Practice	Unit	Amount
	LAND USE - RANGE	
Range Proper Use	Acres	125,000
Range Seeding	Acres	4,898
Spring Development	No.	65
Waterspreading	Acres	6,000
Wells	No.	400



